

| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|---------------------------------------------------------------------------------------------|------------------------------------|------------------|
| - | 937 | evans-c\$.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:10 |
| - | 210 | robbins-p\$.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:11 |
| - | 8 | ghivizzani-s\$.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:11 |
| - | 37 | (evans-c\$.in. or robbins-p\$.in. or ghivizzani-s\$.in.) and pittsburgh.as. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:11 |
| - | 4 | (evans-c\$.in. or robbins-p\$.in. or ghivizzani-s\$.in.) and pittsburgh.as. and subchondral | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:11 |
| - | 4 | (evans-c\$.in. or robbins-p\$.in. or ghivizzani-s\$.in.) and subchondral | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:11 |
| 1893493 | | inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:52 |
| 4604481 | | introduc\$ or contact\$ | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:11 |
| 37394 | | galactosidase or lacz | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:12 |
| 11781 | | transforming adj growth adj factor adj beta\$2 or tgfbeta\$2 or tgf-beta\$2 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:12 |
| 11044 | | insulin adj like adj growth adj factor\$2 or igf-1 or igf1 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:12 |
| 1005 | | subchondral | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:12 |
| 2816 | | subchondral or epiphysis or cortex near15 bone | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:12 |
| 9424 | | subchondral or chondroprogenitor or mesenchymal adj stem adj cell or chondrocyte | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:12 |
| 566499 | | polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:12 |
| 5910 | | (514/44).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:12 |

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| | 47477 | ((514/44).CCLS.) or gene adj therapy or "in vivo" near5 "gene delivery" or "in vivo" near5 "gene transfer" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:13 |
| | 27 | ((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same ((subchondral or epiphysis or cortex near15 bone) or cancellous near3 bone) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:20 |
| | 13783 | mesenchymal adj stem adj cell or msc | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:22 |
| | 157 | ((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (mesenchymal adj stem adj cell or msc) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:24 |
| | 352 | ((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (subchondral or chondroprogenitor or mesenchymal adj stem adj cell or chondrocyte) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:26 |
| | 74 | ((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (mesenchymal adj stem adj cell or msc)) and (galactosidase or lacz) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:26 |
| | 68 | ((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (mesenchymal adj stem adj cell or msc)) and (transforming adj growth adj factor adj beta\$2 or tgfbeta\$2 or tgf-beta\$2) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:26 |
| | 53 | ((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (mesenchymal adj stem adj cell or msc)) and (insulin adj like adj growth adj factor\$2 or igf-1 or igf1) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:27 |
| | 143 | ((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (subchondral or chondroprogenitor or mesenchymal adj stem adj cell or chondrocyte)) and (galactosidase or lacz) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:27 |
| | 156 | ((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (subchondral or chondroprogenitor or mesenchymal adj stem adj cell or chondrocyte)) and (transforming adj growth adj factor adj beta\$2 or tgfbeta\$2 or tgf-beta\$2) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:27 |
| | 116 | ((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (subchondral or chondroprogenitor or mesenchymal adj stem adj cell or chondrocyte)) and (insulin adj like adj growth adj factor\$2 or igf-1 or igf1) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:28 |

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| | 49 | ((((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (subchondral or chondroprogenitor or mesenchymal adj stem adj cell or chondrocyte)) and (galactosidase or lacz)) and (((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (subchondral or chondroprogenitor or mesenchymal adj stem adj cell or chondrocyte)) and (transforming adj growth adj factor adj beta\$2 or tgbeta\$2 or tgf-beta\$2)) and (((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (subchondral or chondroprogenitor or mesenchymal adj stem adj cell or chondrocyte)) and (insulin adj like adj growth adj factor\$2 or igf-1 or igf1)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:29 |
| | 19 | ((((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (mesenchymal adj stem adj cell or msc)) and (galactosidase or lacz)) and (((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (mesenchymal adj stem adj cell or msc)) and (insulin adj like adj growth adj factor\$2 or igf-1 or igf1)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:31 |
| | 15 | ((((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (mesenchymal adj stem adj cell or msc)) and (galactosidase or lacz)) and (((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (mesenchymal adj stem adj cell or msc)) and (transforming adj growth adj factor adj beta\$2 or tgbeta\$2 or tgf-beta\$2)) and (((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (mesenchymal adj stem adj cell or msc)) and (insulin adj like adj growth adj factor\$2 or igf-1 or igf1))) and (((514/44).CCLS.) or gene adj therapy or "in vivo" near5 "gene delivery" or "in vivo" near5 "gene transfer") | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:32 |

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| | 43 | (((((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (subchondral or chondroprogenitor or mesenchymal adj stem adj cell or chondrocyte)) and (galactosidase or lacz)) and (((((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (subchondral or chondroprogenitor or mesenchymal adj stem adj cell or chondrocyte)) and (transforming adj growth adj factor adj beta\$2 or tgbeta\$2 or tgf-beta\$2)) and (((((inject\$ or drill\$ or perforat\$ or microfracture or abrasion or abrade) or (introduc\$ or contact\$)) same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) same (subchondral or chondroprogenitor or mesenchymal adj stem adj cell or chondrocyte)) and (insulin adj like adj growth adj factor\$2 or igf-1 or igf1))) and ((514/44).CCLS.) or gene adj therapy or "in vivo" near5 "gene delivery" or "in vivo" near5 "gene transfer") (drill\$ or perforat\$ or microfracture or abrasion or abrade) same (bone or epiphysis or subchondral) and ((514/44).CCLS.) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:44 |
| | 17 | subchondral same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 09:58 |
| | 27 | epiphysis same (polynucleotide or DNA or vector or adenovir\$ or plasmid or nucleic or cdna or gene) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 10:03 |
| | 19 | | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 10:06 |

| L Number | Hits | Search Text | DB | Time stamp |
|----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------|
| - | 58364 | collagen | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 11:37 |
| - | 63479 | transfect\$ | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 10:20 |
| - | 1338 | mixed near5 collagen | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 10:36 |
| - | 13033 | cationic adj lipid or dospa or lipofectin or lipofectace or cellfectin or multifector or transfectin | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 10:38 |
| - | 162 | (mixed near5 collagen) and (cationic adj lipid or dospa or lipofectin or lipofectace or cellfectin or multifector or transfectin) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 10:38 |
| - | 71 | (polynucleotide or DNA or nucleic or vector or gene or cdna) same (mixed near5 collagen) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 10:50 |
| - | 2294 | collagen adj matrix | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 10:50 |
| - | 565189 | polynucleotide or DNA or nucleic or vector or gene or cdna or plasmid | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 10:50 |
| - | 231 | (collagen adj matrix) same (polynucleotide or DNA or nucleic or vector or gene or cdna or plasmid) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 10:51 |
| - | 144 | ((collagen adj matrix) same (polynucleotide or DNA or nucleic or vector or gene or cdna or plasmid)) and pharmaceutic\$ | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 10:51 |
| - | 7 | ((collagen adj matrix) same (polynucleotide or DNA or nucleic or vector or gene or cdna or plasmid)) same pharmaceutic\$ | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 10:51 |
| - | 18 | liposome same "collagen matrix" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 11:38 |
| - | 73179 | cytokine or chemokine or monokine or lymphokine or interferon or transforming adj growth adj factor adj beta\$2 or TGF-beta\$2 or tgfbeta\$2 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 11:39 |
| - | 13 | (liposome same "collagen matrix") and (cytokine or chemokine or monokine or lymphokine or interferon or transforming adj growth adj factor adj beta\$2 or TGF-beta\$2 or tgfbeta\$2) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/07 11:39 |

STN Search Terms

FILE 'MEDLINE, EMBASE, BIOSIS, CAPLUS
E GHIVIZZANI S/AU

L2 249 S E3 OR E4 OR E5 OR E6 OR E7 OR E8 OR E9
E EVANS C/AU
L3 982 S E3
E EVANS C H/AU
L4 1098 S E3
E EVANS CHRIS
E EVANS CHRIS/AU
L5 61 S E3
E EVANS CHRISTOPHER/AU
L6 42 S E3
E EVANS CHRISTOPHER H/AU
L7 198 S E3 OR E4
L8 2380 S L3 OR L4 OR L5 OR L6 OR L7
E ROBBINS P/AU
L9 969 S E3 OR E7 OR E8
E ROBBINS PAUL/AU
L10 471 S E3 OR E6 OR E7
L11 1438 S L9 OR L10
L12 3470 S L2 OR L8 OR L11
L13 31323 S SUBCHONDRAL OR EPIPHYSIS OR FEMORAL HEAD
L14 5 S L12 AND L13
L15 4 DUP REM L14 (1 DUPLICATE REMOVED)
L16 174400 S GENE DELIVERY OR GENE THERAPY OR GENE
TRANSFER OR NUCLEIC(3A)
L17 42 S L13 AND L16
L18 26 DUP REM L17 (16 DUPLICATES REMOVED)
L19 2 S L18 AND PY<2000